

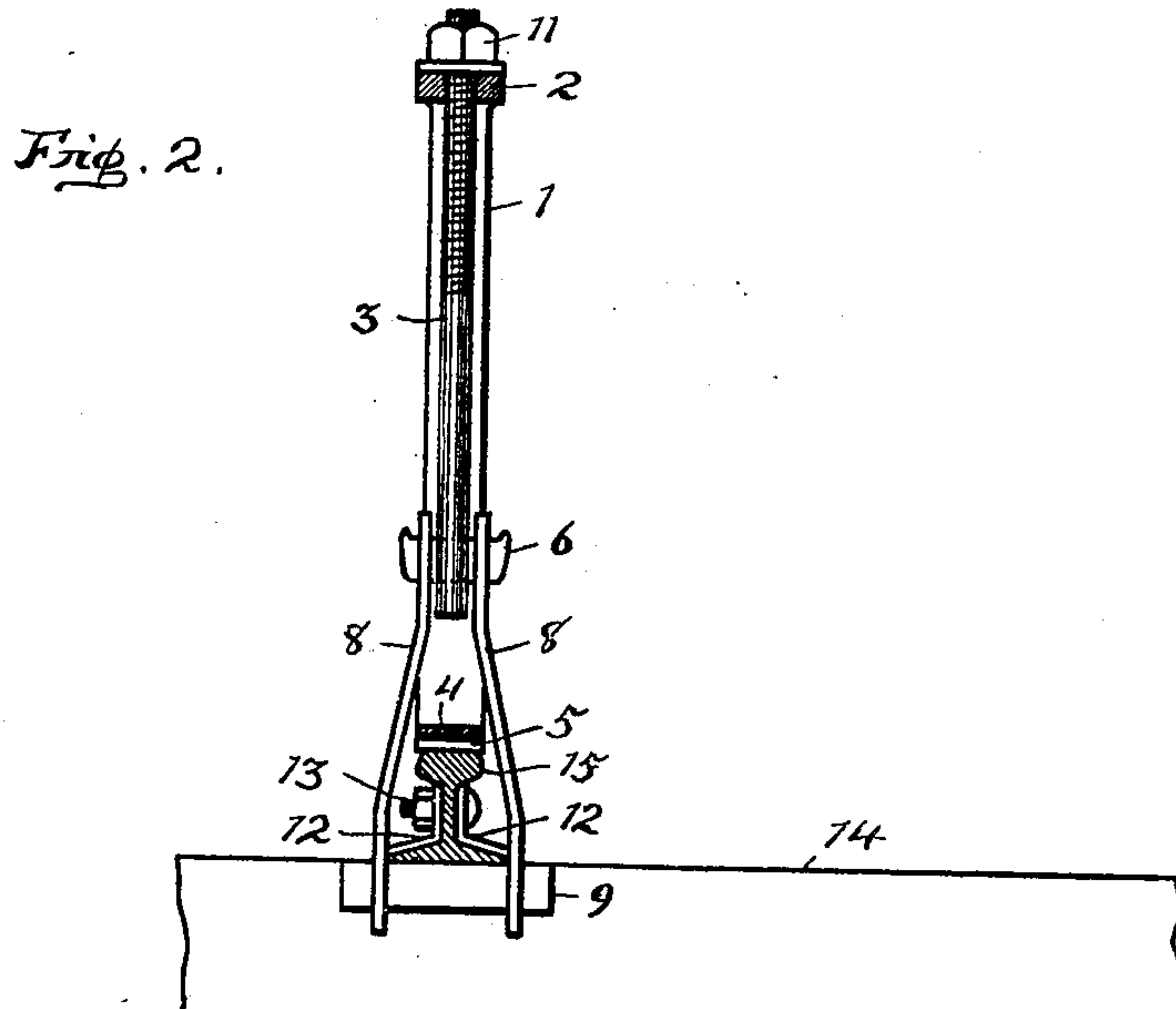
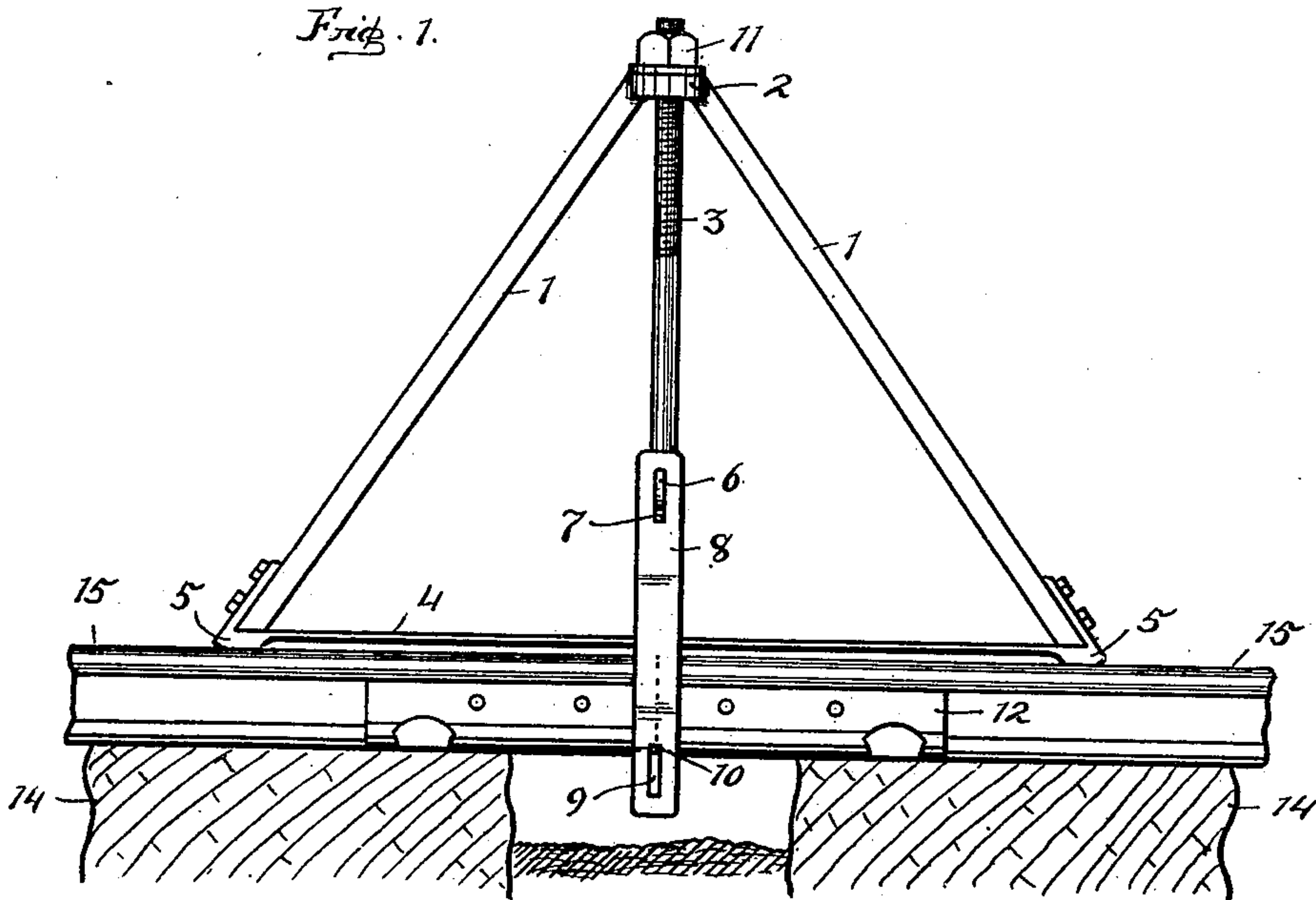
No. 666,619.

Patented Jan. 22, 1901.

R. A. BLAIR.
ANGLE BAR STRAIGHTENER.

(Application filed Apr. 5, 1900.)

(No Model.)



WITNESSES:

Roland A. Blair INVENTOR

T. W. Wilson
A. K. Rocks.

BY H. G. Burns

ATTORNEY.

UNITED STATES PATENT OFFICE.

ROLANDIS A. BLAIR, OF NEW HAVEN, INDIANA, ASSIGNOR OF ONE-HALF
TO FRANK BLAIR, OF BELLEVUE, OHIO.

ANGLE-BAR STRAIGHTENER.

SPECIFICATION forming part of Letters Patent No. 666,619, dated January 22, 1901.

Application filed April 5, 1900. Serial No. 11,583. (No model.)

To all whom it may concern:

Be it known that I, ROLANDIS A. BLAIR, a citizen of the United States, residing at New Haven, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Angle-Bar Straighteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in angle-bar straighteners wherein a screw-threaded rod is coupled with a rail-joint and so mounted in a frame as to allow of a vertical adjustment thereof; and the object of my improvement is to afford means for straightening the angle-bars on railway-rail joints which have become bent by service without removing said angle-bars from the rails to which they are connected. I accomplish my object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the device in position when in use, and Fig. 2 is a view at right angles to Fig. 1 with the frame in central section.

Similar numerals of reference indicate corresponding parts in both views.

The frame consists of the standards 1 1, which are connected at their lower ends by the strut 4 and unite at their tops with the boss 2. The said strut has feet 5 5, which are welded or otherwise secured to its ends and are fixed to the lower ends of the standards 1 1. The said feet depend below the plane of said strut and rest upon the tread of the rails 15 when in position and hold said strut suspended above said rails.

A screw-threaded rod 3 passes loosely

through a suitable opening in the boss 2 and is engaged above said boss by the nut 11. A key 6 is mounted in the lower end of said rod, with its ends extending laterally. The connecting-bars 8 8 have slots 7 at their upper ends, in which the extending ends of said key engage respectively. Said bars are bent so as to pass downward below the rail-joint upon either side. An anchor-bar 9 passes beneath said rail-joint and engages in the slots 10 in said bars at its respective ends. By turning the nut 11 by means of a suitable wrench the rod 3 may be drawn upward, and the rails 15 are thereby lifted at their connected ends and held down at the points in contact with the feet 5. The angle-bars 12 12, which overlap the meeting ends of the rails, are thereby bent upward at the middle of their lengths.

The strut 4 serves to prevent the standards from spreading and being elevated from the rails does not interfere with said rails as they are drawn upward.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a device for straightening angle-bars of rail-joints, the combination of supporting standards, a boss uniting the upper ends of said standards, a strut connecting the lower ends of said standards, feet arranged upon the lower side of said strut beneath the ends of the standards, a screw-threaded rod passing loosely through said boss, a nut engaging said rod above said boss, and suitable means for connecting the lower end of said rod with the rail-joint, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

ROLANDIS A. BLAIR.

Witnesses:

WILMER LEONARD,
T. J. LEONARD.